

# Operator's Handbook

## 200L & 400L Deluxe Spray Trailer

**MODEL STT2H22VR-50B**

**MODEL STT2H34VR-50B**

**MODEL STT4H22-6**

**MODEL STT4H75-6**



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# READ YOUR OPERATOR'S HANDBOOK CAREFULLY BEFORE MOUNTING AND USING YOUR SPRAYER. KEEP YOUR HANDBOOK IN A SAFE PLACE.

## Introduction

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Congratulations on your purchase of a Rapid Spray Deluxe Spray Trailer which is complete and ready to attach to an ATV. Ideally suited to farmers or spray contractors for weed spraying, fence line spraying, spraying of drainage channels and around buildings etc.

### Warnings

- ! **1.** When mounting to any vehicle ensure that you have read the Vehicle Owner's Manual and that you comply with all the weight restrictions as specified by the vehicle manufacturer, as overloading can cause injury or death.
- ! **2.** To ensure your own safety and that of your employees if applicable you must comply with all relevant environmental, work place health and safety legislation and codes of practice.
- ! **3.** Select and wear appropriate Personal protection Equipment in accordance with the label of the product you intend using and your own safe work practices.
- ! **4.** Once the spraying operation has been completed, decontaminate the tank and spray accessories. Dispose of tank rinsings in compliance with current environmental, work place health and safety regulations.
- ! **5.** Personal Protection Equipment must still be worn while decontaminating your sprayer as per warning at 3 above.
- ! **6.** Improper or careless use of this sprayer can cause serious injury. Minors should never be allowed to use this sprayer. This sprayer should not be used when bystanders or animals are in the area. This sprayer should never be used while children are in the area.
- ! **7.** Never leave the sprayer unattended without turning off the engine and relieving the line pressure, and flushing the sprayer of any harmful chemicals.
- ! **8.** You must be in good mental health to operate this sprayer and not be under the influence of alcohol or any drugs that could impair your vision, physical strength, dexterity, judgment, or other mental capacity

## **PRODUCT INFORMATION RISK ASSESSMENT SHEET – SPRAY TRAILER**

<b>Task</b>	<b>Hazards</b>	<b>Risk</b>	<b>Control Measures</b>
1. Partially fill the tank with water, start the motor & test the spray unit	Manual handling; slips, trips or falls; petrol; fumes; fingers jammed	med	Concentrate on task; follow safe manual handling techniques:- don't lift on your own if > 20kg, bend knees & keep back straight; keep fingers clear; keep unit at least 8m away from overhead powerlines; fire extinguisher nearby; follow warning stickers on tanks; wear PPE for petrol & fumes-mask & gloves.
2. Check weather conditions & select the appropriate PPE to suit the chemicals to be used	Manual handling; slips, trips or falls	Low	Put on PPE as per the chemical requirements in the Material Safety Data Sheet-coveralls, gloves, safety footwear, glasses & respirator; follow safe manual handling techniques:-don't lift on your own if >20kg, bend knees & keep back straight.
3. Mix chemicals (if applicable) & fill spray tank	As above; spray drift, chemical spillage, emission of vapors or flammability; weather; untrained visitors	Med	As above; user trained in the state's chemical mixing & administration course eg Chem. Cert; follow the relevant Environment Protection Authority requirements; fire extinguisher present; keep visitors away from the job unless wearing full PPE.
4. Using spray unit	As above; loss of load; heat & cold; noise; exceed load limit of vehicle; hose entanglement; exhaust fumes; terrain & slopes; run over by unit	High	As above; wear clothes to suit heat & cold; wear hearing protection if noise > 85 dBa; follow the manufacturer's safe operation instruction for the vehicle and the spray unit; don't overload - water weighs 1kg for every 1 litre; secure load to vehicle; keep hose tidy; put unit brakes on.
5. Clean up, maintenance & storage	As above	Low	As above; continue to wear PPE for clean up: store unit in a dry, well ventilated area.

# Operating Instructions

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Check all hoses, connections and hose clamps to ensure that the unit has been delivered to you without transportation loss or damage.

Before attempting any spraying with your new unit, operate it with water only to familiarize yourself with its features and capabilities and to ensure that your sprayer has arrived in a safe working condition. Please contact your dealer immediately should anything appear to have been damaged.

Prepare the engine for use as per the engine manual supplies with your sprayer. Ensure that the correct quantity and type of oil is used when filling the engine.

## Start Up Procedure

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Prepare the engine for start as per the engine manual and pump manual.

Add the spray solution to the tank (See “Mixing and Filling”).

Ensure that the pressure regulator lever is in the BY PASS position and the pressure adjusting knob is screwed out (anti-clockwise). Failure to do so will invalidate pump warranty.

Start the engine and allow it to warm up. Run the pump with the regulator lever in the BY PASS position in order to discharge entrapped air from the system for at least two minutes before changing the regulator lever to the PRESSURE position. (Rotate clockwise)

To set the correct spraying pressure, open the flow through the hand gun (discharge solution back to tank) and turn the pressure regulator knob in a clockwise direction until the required pressure is achieved. Spray nozzle pressure will vary according to hose length, nozzle size, etc. When the hand gun is released the increased pressure in the system will be automatically adjusted by the pressure regulator valve and excess flow will be returned to the spray tank.

# Mixing and Filling

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Sites for mixing and filling the sprayer should be carefully chosen to be away from any risk of spillages draining into water courses or into environmentally sensitive areas. Children and animals must always be kept away from mixing and filling operations.

The following steps are given as a guide for mixing and filling the sprayer.

- Read the product label and follow all directions carefully, taking special care with regard to the order in which the products are added to the tank.
- Measure out the correct quantities of pesticides, using clean measuring jugs used only for this purpose.
- Half fill the sprayer with clean water and then add the measured pesticide/herbicide.
- Rinse out the measuring vessel and empty containers. Pour all rinsings into the tank, and top up the tank with water to the required level. Ensure thorough by stirring with a suitable round edged paddle or start the pump with the pressure regulator lever in the BY PASS position.
- Wash off any spillage from the outside of the tank. Return part empty containers to a place of safety. Empty containers must be correctly rinsed and collected for safe disposal in compliance with current environmental legislation and codes of practice.

# Spraying

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The following steps are given as a guide for spraying with your trailer unit.

- Before commencing spraying, plan the work effectively to reduce potential contamination to a minimum.
- Wind Direction and speed must be taken into account when spraying.
- Do not spray if the operator, bystanders, watercourses or any not targeted vegetation appears to be in danger from spray drift contamination.
- Drift can be reduced by lower nozzle height, lower pressures or by fitting larger nozzles.
- To commence spraying, squeeze trigger. Release the trigger to stop the spray – the regulator will automatically allow spray solution to bypass through the return line and back to the tank.
- Spray at a constant speed (as used during calibration) and shut off the hand lance trigger at the end of each swath or before changing direction.
- Work in parallel lines at the correct spacing when spraying large area – this is better than moving the hand lance from side to side in a swinging movement which causes damage by overdosing.

# Decontamination and Maintenance

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1. After use, the sprayer must be thoroughly decontaminated, inside and outside – including pump, hoses, boom and hand lance, to avoid damage to crops from harmful spray residues. Decontamination prevents sprayer corrosion and abrasion. As a guide follow the decontamination procedure below.
  - After spraying, rinse out the tank with several changes of water plus a recommended cleaning fluid, brushing the inside of the tank.
  - The suction filter mounted on the sprayer frame must be cleaned regularly. Unscrew the filter cover and remove the filter screen and remove the filter screen and gasket. Soak in clean water, brushing with a nozzle brush. Ensure gasket is in position when re-assembling.
  - The filter basket strainer is removed by lifting it out of the filter ring. Clean the basket strainer the same way as the suction filter. Replace the basket strainer by exerting a quick downward push ensuring the strainer has seated correctly.
  - Nozzles, nozzle filters, nozzle caps and gaskets should be cleaned by soaking in water, brushing with a nozzle brush and allowed to dry. Never blow through the nozzles with your mouth nor use wire or pins to clear any blockages. When re-assembling ensure that the nozzle cap gasket is correctly positioned
2. When storing the sprayer ensure that it is clean and dry and kept in a ventilated place.

## Calibration

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Accurate calibration is an essential element of any spraying function as it ensures that the pesticide is applied at the rate of the product label. Application in excess of the recommended rate is prohibited, can damage crops and is uneconomical.

Calibration must always be carried out:

- When spraying for the first time with new spray equipment
- At the beginning of each season
- After changes of nozzle tips, spraying pressure or speed
- After every 100 hectares of spraying

When calibrating a sprayer, a minimum of coverall, gloves and boots must be worn. A face shield and PVC apr4ob may be included depending on the task and the cleanliness of the sprayer.

# Calibration Procedures

The following table gives a step-by-step guidance on the standard method of sprayer calibration.

BOOM SPRAYERS HYDRAULIC NOZZLES		EXAMPLE
Read the LABEL	Spray VOLUME Product Dose Spray QUALITY	200 Litres / hectare 50 Litres / hectare Medium
Measure TIME per 100 Metres	Measure time in seconds over land similar to that to be sprayed	41.9 seconds
Calculate SPEED	SPEED = 360 divided by TIME km/h                      seconds	360/41.9 = 8.6km/h
Measure nozzle SPACING	Normally .5 metres (50cm)	.5 metre
Measure TIME per 100 Metres	OUTPUT = VOLUME X SPEED X SPACE / 600 litres/min   litres/hectare   km/h   metre	200 X 8.6 X 0.5 / 600
Select NOZZLE	Refer to nozzle manufactures data charts or other sources and select the size and type of nozzle that will produce the calculated OUTPUT and required spray QUALITY	41.9 seconds

## Now, check the calibration on the sprayer

Check Nozzle OUTPUT	With water, check outputs of 4 or more nozzles using a calibrated jug or flow meter. Check all nozzles are aligned correctly and spray patterns	Average output = 41.9 litres/minute
Calibrate SPRAYER	SPEED = 360 divided by TIME km/h                      seconds	1.4 x 600 / 0.5 / 8.6

As the nozzle output and therefore the spray volume are less than target figures, increase the pressure to, say 2.5 bar and repeat the calibration to achieve 200 litres / hectare

Now, record the details as calculated

Nozzle fitted	11004 - RED
Spray Volume	200 litres/hectare
Spray Pressure	2.5 bar
Spray Quality	Medium
Forward Speed	8.6 km/h

# Considerations when spraying

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For effective spraying ensure you have taken the following factors into account

## 1. Work Rates

- Speed of operation
- Water points or nurse tanks
- Rate of travel
- Swath width
- Spray volume applied

## 2. Wind and drift

- Wind Speed
- Wind Direction
- Airspeed at boom height

Avoid spraying on still warm days as convection currents may cause drift in unpredictable directions.

Optimum wind speeds are between 3km/h to 7 km/h

- Wind direction and drift is controlled by;:
- Reducing nozzle height
- Reducing pressure and using larger nozzles
- Fit low-drift nozzles producing larger droplets

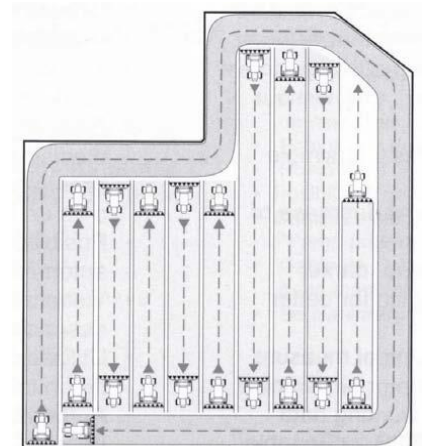
## 3. Field Work (See diagram below)

Swath marking and spraying

- Mark out to ensure proper pass matching – use flags foam markers or tramlines
- Where large obstructions exist in the middle of an area to be sprayed, mark out and spray the area like a separate headland.
- The perimeter of the field should be sprayed first. The width of two swaths will give adequate turning space at the ends of spray runs.
- Never spray while turning.

## 4. Speed

Maintain a constant speed when spraying. Should you need to increase your spraying speed, larger delivery nozzles must be fitted. Re-calibrate as required



# After Season Care

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NOTE: It is important that when cleaning the sprayer one wears proper safety equipment. See your chemical or fertilizer package for this information.

1. After spraying chemicals run water through the tank, pump, and all hose hookups. If wettable powder dries out in the system it is very difficult to put back into suspension and can cause malfunction, damage or injury.
2. Disassemble the tips and rinse with water or cleaning solution (ie one appropriate for the chemical sprayed).
3. Clean the tip opening with a wooden toothpick. Never use wire or a hard object that could distort the opening.
4. Water rinse and dry the tips before storing.

Be sure to dispose of all unused chemicals or solutions in a proper and ecologically sound manner.

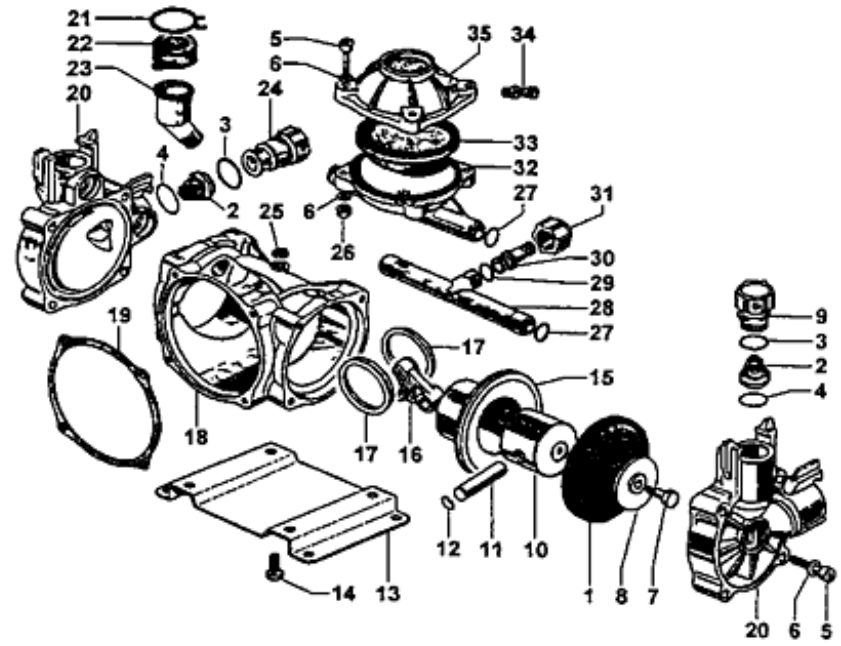
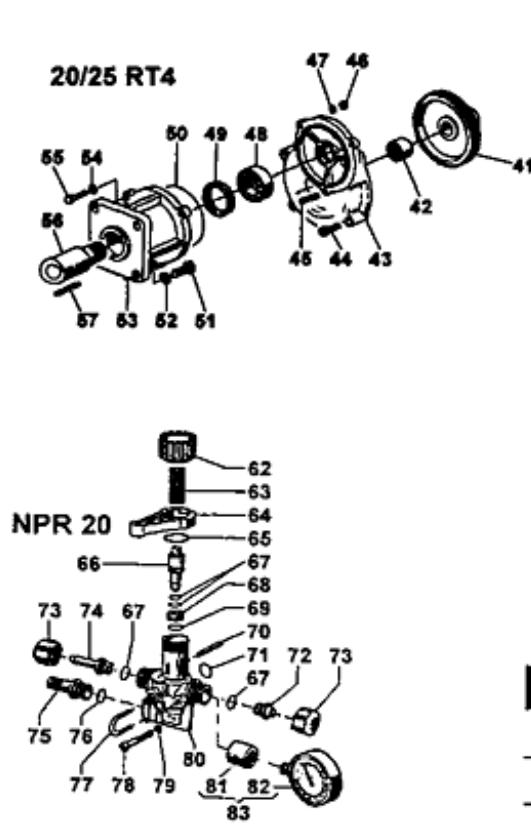
## STT Models - 22 Litre/min Pump

Item		Code	Description
11		STA31	1 ¼" MBSP Poly Tank Fitting with Gasket
12		STAHS25	25mm Suction Hose
13		STAB031	1 ¼" Suction Filter Complete
14			4HP Honda Motor GC135
15		STAP31	Bertonini Pump & Gearbox 22l/m, 20Bar, - 20RT4
16	i)	BE 80.3060.00.2	O'Ring 1.78 x 12.42mm
	ii)	BE 84.0521.00.2	90° Elbow Connector 19mm
	iii)	BE 82.0042.10.2	¾" Flynut
17		STAHS19	19mm Suction Hose
18	a	AR2452045	1 ¼" FBSP to 1" MBSP Reducer
18	b i)	AR116420	1" X 20mm Elbow
	ii)	AR2002040	1" Flynut
	iii)	ARG10041	1" O'Ring
19		AIBFP30606	3/8" MBSP x 10mm Hose Barb - Brass
20		STAH10	10MM Spray Hose
21		STAP76	NPR20 Regulator - 20Bar
26	i)	AR106525	1¼" x 25mm Straight
	ii)	ARG10051	1¼" O'Ring
	iii)	AR2002050	1¼" Flynut

## STT Models - 34 Litre/min Pump

Item		Code	Description
11		STA31	1 ¼" MBSP Poly Tank Fitting with Gasket
12		STAHS25	25mm Suction Hose
13		STAB031	1 ¼" Suction Filter Complete
14			5.5HP Honda Motor GX160
15		STAP37	Bertonini Pump & Gearbox 34L/m, 40bAR,-PA330
16	i)	BE 80.3200.00.2	O'Ring 2.62 x 22.22mm
	ii)	BE 84.0542.00.2	90° Elbow Connector 19mm
	iii)	BE 82.0049.10.2	Nut M34
17		STAHS25	25mm Suction Hose
18	i)	AR2002050	1 ¼" Fly Nut
	ii)	ARG10051	1¼" O'Ring
	iii)	AR116525	1¼" x 25mm Elbow
19		AIBFP30606	3/8" MBSP x 10mm Hose Barb - Brass
20		STAH10	10MM Spray Hose
21		STAP78	Karin 2 Way Regulator 50l/m - 40Bar
26	i)	AR106525	1¼" x 25mm Straight
	ii)	ARG10051	1¼" O'Ring
	iii)	AR2002050	1¼" Flynut

# Spare Parts List (Pump Series 20VF - STAP30) - 22 Litre/min

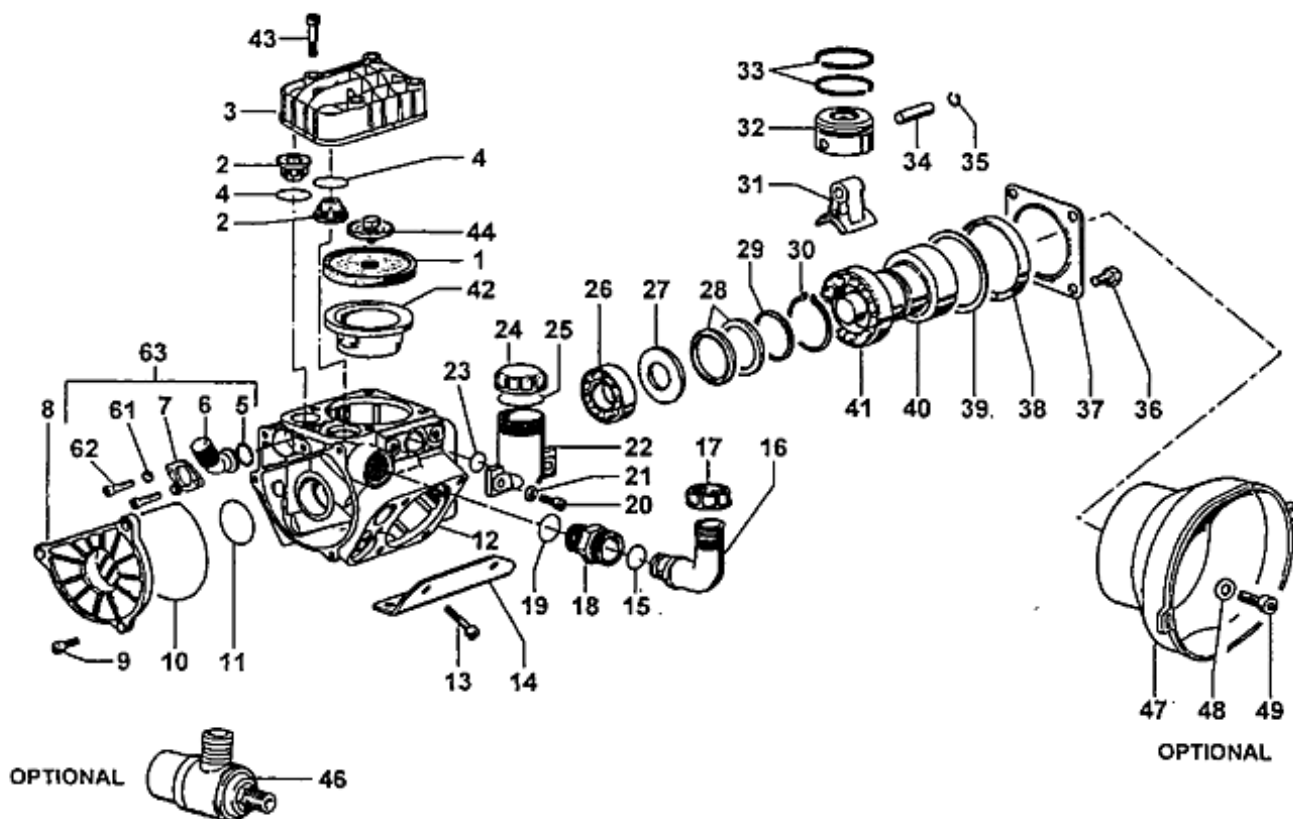


Spares Kits											
Rapid Spray Part No.	STAP101				STAP102			STAP103			
Kit Part No.	94.9881.97.3				94.9870.97.3			94.9871.97.3			
Kit Description	Pump Seals Kit VF				Valves Assy			BUNA-N Diaphragms			
Position No.	42	27	3	4	19	2	3	4	1	27	33
Quantity Incl.	1	4	4	4	1	4	4	4	2	4	1

Pos.	Part No.	Qty	Description
1	94.0040.31.2	2	Piston Diaphragm
1	94.0040.33.2	2	Viton Piston Diaphragm (non stock)
2	94.9828.97.3	4	Valve Assy
3	80.3219.00.2	4	O-Ring 3,0 x 25
4	82.4154.00.2	4	Gasket Dia. 30 x 24 x 1
5	86.2796.00.2	12	Screw M8 x 40 UNI5931
6	84.3685.00.2	16	Washer Dia. 8.4 x 15 x 1.5
7	94.0048.43.2	2	Diaphragm Locking Bolt
8	94.0036.32.2	2	Disk
9	94.0091.98.2	2	Outlet Valve Cap
10	94.0017.08.2	2	Piston Dia. 42 (20 series)
10	94.0016.08.2	2	Piston Dia. 48 (25 series)
11	85.2004.00.2	2	Piston Pin
12	80.0003.00.2	4	Ring Dia. 10
13	94.0022.61.2	1	Mounting Rail
14	86.2059.00.2	4	Screw M6 x 14 UNI5739
15	94.0007.01.2	2	Piston Sleeve Dia. 42 (20 series)
15	94.0015.01.2	2	Piston Sleeve Dia. 48 (25 series)
16	94.0008.09.2	2	Conrod
17	94.0047.76.2	2	Conrod Ring
18	94.0001.09.2	1	Crankcase
19	94.0080.72.2	1	Crankcase Cover Gasket
20	94.0002.09.2	2	Pump Head
21	81.7537.00.2	1	Clamp
22	94.0044.31.2	1	Oil Filler Cap
23	94.0043.32.2	1	Oil Filler
24	94.0090.98.2	2	Inlet Valve Cap
25	94.0075.66.2	1	Cap
26	81.4575.00.2	4	Nut M8 UNI5588
27	80.3181.00.2	4	O-Ring 2.62 x 15.54
28	94.0014.32.2	1	Inlet Manifold
29	80.3060.00.2	1	O-Ring 1.78 x 12.42
30	84.0521.00.2	1	90° Elbow Connector Dia. 20
31	82.0042.10.2	1	Wing Nut G.3/4
32	94.0004.09.2	1	Damper Body
33	94.0041.31.2	1	Damper Diaphragm
33	94.0041.33.2	1	Viton Damper Diaphragm
34	86.1605.00.2	1	Air Valve
35	94.0003.09.2	1	Damper Cover
36	81.2531.00.2	1	Needle Bearing DHK 1312
37	94.0026.32.2	1	Crankshaft Spacer
38	81.2688.00.2	1	Needle Bearing DHK 2520
39	94.0027.32.2	1	Spacer
40	80.1264.00.2	1	Ring Dia. 35

Pos.	Part No.	Qty	Description
41	81.2837.00.2	1	Ball Bearing Dia. 35 x 62 x 14
42	80.2178.10.2	1	Oil Seal Dia. 40 x 52 x 7
43	94.0216.09.2	1	Bearing Housing (VF)
44	86.2168.00.2	4	Screw M6 x 22 UNI5931
45	94.0029.26.2	1	Crankshaft VF
46	81.4525.00.2	3	Dado M5 Uni5588
47	84.3542.00.2	2	Rosetta D.5,3x10x1
48	81.2631.00.2	1	Cuscinetto Sfere
49	80.2117.00.2	1	Anello Radiale
50	80.3210.64.2	1	Anello Or 2,62x75,87
51	86.2566.00.2	4	Vite Te 5/16"-24unf L=3/4"
51	86.2622.00.2	4	Vite Te M8x22 Uni5739 (Honda G100)
52	84.3685.00.2	4	Rosetta D.8,2x15x1,5
53	94.0210.09.2	1	Flangia Motori Termici ("Rt4")
54	84.3560.00.2	3	Rosetta D.5,5x15x1,6
55	86.1935.10.2	2	Vite Te M5x25 Uni5737
56	94.0211.42.2	1	Pignone Z=10 (Sae 3/4")
56	94.0228.42.2	1	Pignone Z=10 (Honda G100-s)
56	94.0218.42.2	1	Pignone Z=10 (Honda G100-q)
57	80.6436.00.2	1	Linguetta 4,75x5x30
57	80.6445.00.2	1	Linguetta 5x5x30 (Honda G100-s)
62	94.0203.32.2	1	Knob
63	94.0073.48.2	1	Spring
64	94.0202.32.2	1	Lever
65	80.3199.00.2	1	O-Ring 2.62 x 21.89
66	94.0204.32.2	1	Poppet
67	80.3174.00.2	4	O-Ring 2.62 x 9.92
68	05.0068.51.2	1	Seat
69	80.3056.00.2	1	O-Ring 1.78 x 8.73
70	85.1045.00.2	1	Pin Dia. 3 x 30
71	80.3217.00.2	1	O-Ring 3.0 x 14
72	94.0201.32.2	1	Pressure Regulator Plug
73	82.0015.00.2	2	Wing Nut G.1/2
74	84.1528.00.2	1	Outlet Connector Dia. 10
75	84.1551.00.2	1	Return Connector Dia. 13
76	80.3178.00.2	1	O-Ring 2.62 x 13.1
77	94.0206.49.2	1	Quick Release Pin
78	86.1943.90.2	2	Screw M5 x 45 UNI5931
79	84.3542.00.2	2	Washer Dia. 5.3 x 10 x 1
80	94.0200.32.2	1	Pressure Regulator Body
81	94.0207.32.2	1	Nipples G.1/2 - G.1/4
82	83.0010.00.2	1	Pressure Gauge
83	94.9849.97.3	1	Pressure Gauge Kit

# Spare Parts List (PA330 VF - STAP36) - 34 Litre/min

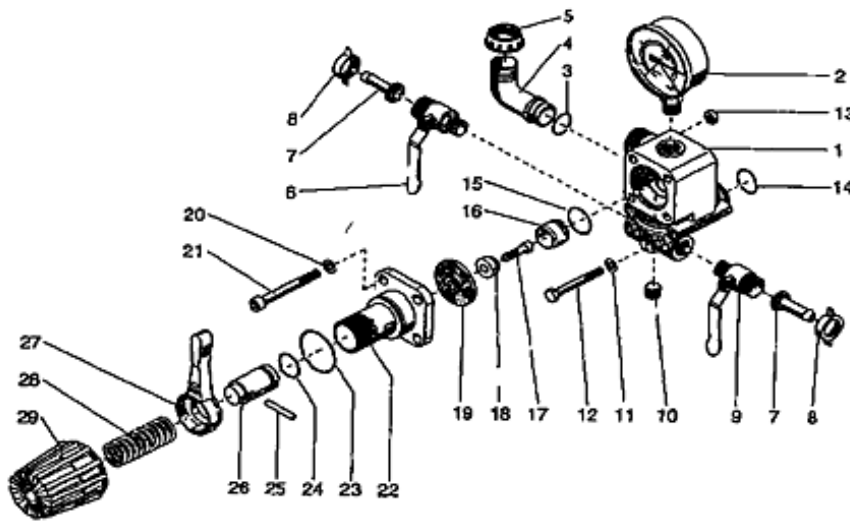


Pos.	Part No.	Qty	Description	Pos.	Part No.	Qty	Description
1	03.0040.31.2	3	Piston Diaphragm	25	82.4120.00.2	1	Gasket Dia. 45 x 19 x 1.5
1	03.0040.00.2	3	Desmopan Piston Diaphragm	26	81.2646.00.2	1	Ball Bearing Dia. 20 x 52 x 15
1	03.0040.36.2	3	HPS Piston Diaphragm	27	03.0011.61.2	1	Spacer
2	03.9801.97.3	6	Valve Assy (up until Nov 04)	28	94.0047.76.2	1	Conrod Ring
2	03.9821.97.3	6	Valve Assy (new style Dec 04)	29	03.0012.61.2	1	Spacer
3	03.9820.97.3	3	Head (up until Nov 04)	30	80.1331.00.2	1	Shaft Ring D.45
3	03.0202.09.2	3	Head (new style Dec 04)	31	03.0005.09.2	3	Conrod
4	03.0016.31.2	6	Valve Seal	32	03.0006.09.2	3	Piston Dia. 48
6	31.8916.97.3	1	Outlet Flange Kit G.1/2	33	81.8502.50.2	6	Piston Ring
8	03.0003.09.2	1	Suction Cover	34	85.2006.00.2	3	Piston Pin Dia. 10
9	86.2131.00.2	3	Screw M6 x 18 UNI5931	35	80.0003.00.2	6	Ring Dia. 10
10	80.3210.66.2	1	O-Ring 2.62 x 101.27	36	86.3185.00.2	4	Screw M10 x 16 UNI5739
11	80.3208.30.2	1	O-Ring 2.62 x 36.14	37	17.0013.61.2	1	Cover
12	03.0001.09.2	1	Crankcase	38	80.2264.10.2	1	Oil Seal Dia. 68 x 90 x 10
13	86.2893.00.2	4	Screw M8 x 50 (up until Nov 04)	39	03.0015.61.2	1	Spacer
13	86.2900.00.2	4	Screw M8 x 55 (new style Dec 04)	40	03.0017.26.2	1	Crankshaft
14	03.0014.61.2	2	Mounting Rail	41	81.2933.00.2	1	Ball Bearing Dia. 45 x 75 x 16
15	80.3200.00.2	1	O-Ring 2.62 x 22.22	42	03.0007.01.2	3	Piston Sleeve Versions
16	84.0542.00.2	1	90° Elbow Connector Dia. 25	43	86.2852.00.2	11	Screw M8 x 45 (up until Nov 04)
17	82.0049.00.2	1	Wing Nut M34	43	86.2893.00.2	11	Screw M8 x 50 (new style Dec 04)
18	83.5062.10.2	1	Nipples G.3/4 - M34	44	03.0021.97.3	3	Kit Diaphragm Washer / Screw AISI 316
19	80.3205.00.2	1	O-Ring 2.62 x 25.07	46	24.3040.97.3	1	Safety Valve 40 Bar (Optional)
20	86.2730.00.2	2	Screw M8 x 30 UNI5931	47	31.1482.32.2	1	Plain Safety Cone (Optional)
21	84.3685.00.2	2	Washer Dia. 8.4 x 15 x 1.5	48	84.3810.00.2	4	Washer Dia. 10.5 x 21 x 2
22	23.0008.32.2	1	Oil Filler	49	86.3212.00.2	4	Screw M10 x 20 UNI5931
23	80.3180.00.2	1	O-Ring 2.62 x 15.08				
24	85.2750.00.2	1	Oil Filler Cap				

## Spares Kits

Rapid Spray Part No.	STAP105	STAP106	STAP106.1	STAP107	STAP108							
Kit Part No.	03.9830.97.3	03.9850.97.3	30.9875.97.3	03.9851.97.3	03.9873.97.3							
Kit Description	Pump Seals Kit	Valve Assy (up until Nov 04)	Valve Assy (from Dec 04)	BUNA-N Diaphragms	DESMOPAN Diaphragms							
Position No.	4	38	10	11	2	4	2	4	1	4	1	4
Quantity Incl.	6	1	1	1	6	6	6	6	3	6	3	6

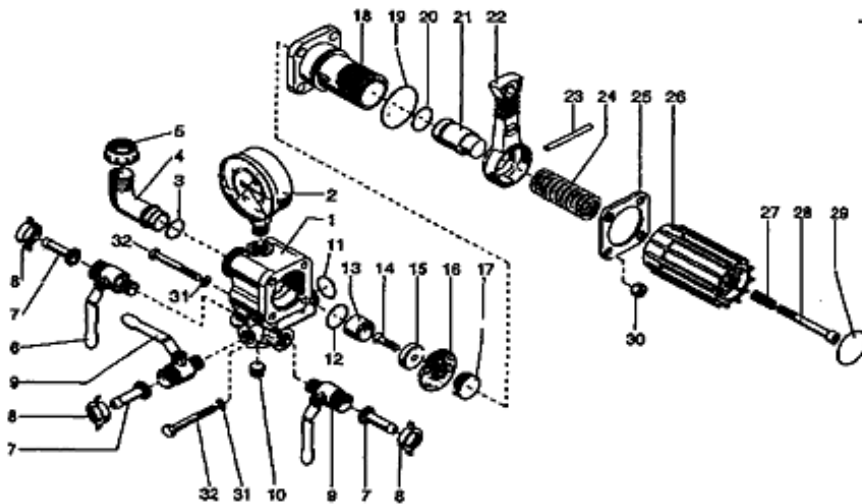
# Spare Parts List KARIN STAP77 (15 Bar) + STAP78 (40 Bar)



Spares Kits								
Rapid Spray Part No.	STAP133							
Kit Part No.	25.9963.97.3							
Kit Description	Karin Kit							
Position No.	3	14	15	16	18	19	23	24
Quantity Incl.	1	1	1	1	1	1	1	1

Pos.	Part No.	Qty	Description
1	24.0310.32.2	1	Valve Housing
2	83.0080.00.2	1	Pressure Gauge 0-100 Bar
2	83.0010.00.2	1	Pressure Gauge 0-24 Bar
3	80.3060.00.2	1	O-Ring 1.78 x 12.42
4	84.0521.00.2	1	90° Elbow Connector Dia. 20
5	82.0042.10.2	1	Wing Nut G.3/4
6	84.5544.10.2	1	Left Tap G.3/8 - G.1/2
7	84.1544.00.2	2	Outlet Straight Port D.10
8	82.0010.00.2	2	Wing Nut G.1/2
9	84.5544.00.2	1	Right Tap G.3/8 - G.1/2
10	85.2585.00.2	1	Cap G.3/8
11	84.3585.00.2	2	Washer Dia. 6.4 x 12.5 x 1.6
12	86.2426.00.2	2	Screw M6 x 60 UNI5737
13	84.4525.00.2	4	Nut M5 UNI5588
14	80.3218.00.2	1	O-Ring 3.0 x 22
15	80.3059.00.2	1	O-Ring D.1.78 x 11.11
16	24.0320.51.2	1	Valve Seat
17	86.1841.50.2	1	Screw M4 x 12
18	24.0319.51.2	1	Poppet
19	24.0313.36.2	1	HPS Diaphragm
20	84.3539.00.2	4	Washer Dia. 5.3 x 10 x 1
21	86.1944.20.2	4	Screw M5 x 50
22	24.0311.32.2	1	Flange
23	80.3075.00.2	1	O-Ring
24	80.3175.00.2	1	O-Ring 2.62 x 10.78
25	85.1148.00.2	1	Pin
26	24.0314.53.2	1	Guiding Piston
27	24.0312.32.2	1	Lever
28	24.0316.48.2	1	Spring 40 Bar
28	24.0550.48.2	1	Spring 15 Bar
29	24.0321.32.2	1	Knob

# Spare Parts List STING - STAP79 (15 Bar) + STAP80 (40 Bar)



Spares Kits								
Rapid Spray Part No.	STAP134							
Kit Part No.	25.9964.97.3							
Kit Description	Sting Kit							
Position No.	3	11	12	13	15	16	19	20
Quantity Incl.	1	1	1	1	1	1	1	1

Pos.	Part No.	Qty	Description
1	24.0300.32.2	1	Valve Housing
2	83.0080.00.2	1	Pressure Gauge (0-100 Bar)
2	83.0010.00.2	1	Pressure Gauge (0-24 Bar)
3	80.3060.00.2	1	O-Ring 1.78 x 12.42
4	84.0521.00.2	1	90° Elbow Connector Dia. 20
5	82.0042.10.2	1	Wing Nut G.3/4
6	82.5544.10.2	1	Left Cap G.3/8 - G. 1/2
7	84.1544.00.2	2,3	Outlet Straight Port D. 10
8	82.0010.00.2	2,3	Wing Nut G.1/2
9	84.5544.00.2	1,2	Right Tap G.3/8 - G.1/2
10	85.2585.00.2	1,2	Cap G.3/8
11	80.3213.00.2	1	C-Ring 3.0 x 22
12	80.3182.00.2	1	C-Ring 2.62 x 17.13
13	26.0220.18.2	1	Valve Seat
14	86.1934.80.2	1	Screw M5 x 16 UNI5933 Inox
15	26.0201.18.2	1	Ceramic Poppet
16	26.0189.36.2	1	HPS Diaphragm
17	26.0203.32.2	1	Diaphragm Holder Piston
18	24.0301.32.2	1	Flange
19	80.3208.20.2	1	O-Ring 2.62 x 34.6
20	80.3181.20.2	1	O-Ring 2.62 x 15.88
21	24.0302.53.2	1	Guiding Piston
22	24.0303.32.2	1	Lever
23	85.1161.00.2	1	Pin Dia. 4 x 45.5
24	26.0217.48.2	1	Spring (15 Bar)
24	26.0212.48.2	1	Spring (40 Bar)
25	24.0304.61.2	1	Shim
26	24.0304.32.2	1	Knob
27	24.0305.49.2	1	Spring
28	86.2428.00.2	1	Screw T.C.E.I. M6 x 65 UNI5931
29	24.0307.32.2	1	Cap
30	81.4542.00.2	4	Nut M6 UNI5588
31	84.3585.00.2	6	Washer Dia. 6.4 x 12.5 x 1.6
32	86.2426.00.2	6	Screw M6 x 60 UNI5737

# Warranty

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Your DELUX SPRAY TRAILER is guaranteed free from defect in materials, workmanship or manufacture for 12 months from the date of purchase. Any parts which appear to us to be defective either in material or workmanship will be replaced or repaired at no cost to the purchaser, subject to the following conditions:

1. The registration card enclosed in this handbook must be returned to us within 7 days of purchase.
2. The guidelines in this handbook have been adhered to in every respect.
3. In the unlikely event of sprayer failure this should be reported to your dealer who will act on your behalf to resolve the issue to your satisfaction.
4. Any defective parts will be returned by your dealer within 7 days of failure, together with a report describing the failure and conditions in which the failure occurred.
5. The following are specifically excluded from the terms of warranty:
  - Fair wear and tear to pump moving parts and diaphragms
  - Fair wear and tear to nozzles and nozzle bodies
  - Damage caused by neglect or lack of lubrication
  - Damage caused by misuse or abuse
  - Damage caused while the sprayer is in transit



*Manufactured by:*  
Rapid Spray Southern  
Murray Valley Hwy  
Nathalia VIC 3638  
AUSTRALIA  
FREECALL: 1800 816 277

Whist every care has been taken in the preparation of these instructions, no liabilities can be accepted with regard to errors or omissions. Product specifications are subject to change in line with our commitment to continuous improvement.



# WARRANTY REGISTRATION CARD

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To validate your warranty, please complete all the details below and post this card.  
I have read and understood these instructions.

Sprayer Model \_\_\_\_\_ Date purchased \_\_\_\_/\_\_\_\_/\_\_\_\_

Serial Number \_\_\_\_\_

Purchased from \_\_\_\_\_

(Dealer Name and Town)

Purchaser's Name \_\_\_\_\_

Purchaser's Address \_\_\_\_\_  
\_\_\_\_\_ p/c \_\_\_\_\_

\_\_\_\_\_  
Purchaser's Signature \_\_\_\_\_

## ***To help us help you further please complete the following –***

Purchaser's Age

- Up to 25
- 25 – 40
- 41-55
- Over 55

Principle Usage

- Commercial Farm
- Hobby Farm
- Industrial
- Home
- Town Council
- Hire Company
- Other

## ***What influenced you to purchase a Rapid Spray product?***

- Catalogue received
- Newspaper Advertisement
- Dealer recommendation
- Friend's recommendation
- Better features than other sprayers
- Quality and reliability
- Price
- Past experience with Rapid Spray product

## ***What other Rapid Spray/Rapid Plas products do you use?***

- Animal Feeders/Waterers
- RainWater Tanks
- Spray Tanks
- Diesel Tanks
- Inter Knapsacks
- Boom Sprayers
- Bertolini Pumps and Controllers
- Fire Fighters

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